

## CLAIMS

1. Telephone comprising:

a memorization or indication device for memorizing or indicating data  
5 related to incoming and/or outgoing calls on a telephone line; and

a detector for outputting a line state signal of the telephone line to the  
memorization or indication device; and

wherein the memorization or indication device is operable to memorize  
or indicate the data as a function of the line state of the telephone line, thereby  
10 providing reliable data even when calls originate or terminate from or on another  
telephone on the telephone line.

2. Telephone of claim 1, wherein the memorization or indication device  
comprises an unanswered call indicator for indicating when an incoming call is not  
15 answered as determined from the line state signal.

3. Telephone of claim 1, wherein the line state of the telephone is either a  
busy state or a free state; and wherein the memorization or indication device is  
operable to memorize communication times of incoming calls by determining time  
elapsed between two line state changes for each incoming call.

4. Telephone of claim 3, wherein the memorization or indication device is  
20 operable to memorize received numbers of the incoming calls.

5. Telephone of claim 1, wherein the line state of the telephone is either a  
busy state or a free state; and wherein the memorization or indication device is  
operable to memorize duration of outgoing calls by determining time elapsed between  
two line state changes for each outgoing call.

6. Telephone of claim 5, wherein the memorization or indication device is  
25 operable to memorize called numbers.

7. Telephone of claim 6, further comprising a called number detector for  
detecting numbers dialed on the telephone line, thereby memorizing call numbers  
dialed from other telephones on the telephone line.

8. Telephone of claim 7, wherein the called number tone detector is a  
30 DTMF decoder.

9. Telephone of claim 1, further comprising:  
a processor having a memory; and  
a device for receiving programming signals over the telephone line, the  
5 programming signal being downloaded to the memory of the processor; and  
wherein the processor is operable to restore the data as a function of the  
line state of the telephone line.

10. Telephone comprising:  
a memorization or indication device for memorizing or indicating data  
10 related to incoming and/or outgoing calls on a telephone line; and  
a detector for outputting a line state signal of the telephone line to the  
memorization or indication device; and  
wherein the memorization or indication device is operable to memorize  
or indicate the data as a function of the line state of the telephone line.

15 11. A multiple telephone set, comprising:  
at least one telephone comprising a line detector for outputting a line  
state signal of a telephone line; and a memorization or indication device for  
memorizing or indicating data related to incoming and/or outgoing calls on the  
telephone line;

20 at least one telephone without the memorization or indication device;  
and

wherein the memorization or indication device is operable to memorize  
or indicate the data as a function of the line state of the telephone line, thereby  
providing reliable data even when calls originate or terminate from or on another  
25 telephone on the telephone line.